

## INTERNATIONAL SEARCH REPORT

International application No.  
PCT/KR2004/003149

## A. CLASSIFICATION OF SUBJECT MATTER

## IPC7 A23L 1/32

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7th: A23L 1/00, 1/32, G07F 1/72

Japanese F-term: 4B042

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched  
 Korean patents and applications for inventions since 1975, Korean utility models and applications for utility models since 1975, and  
 Japanese utility models and applications for utility models since 1975

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
 PAJ, IBM, USPTO, Delphion, e-KIPASS

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	JP10-146171 A(Chiba Kazuo) Jun.02,1998 see PAJ abstract, segment[04] - [09]	1,5
A	KR2003-067967 A(Korea Enterprise Inc.) Aug.19,2003 see KPA, claims 1-4, * KPA: the English version of the abstract in the above document	1,5
A	JP56-137869 A(Nomizu Hiroo) Oct.28,1981 see PAJ abstract, drawings	1,4,8,11
A	KR1999-006224 A(Im, Sul-ki) Jan.25,1999 see the whole document	1-3, 5-6
A	JP61-141864 A(Shiyoubi Inc.) Jun.28,1986 see the whole document	1,4

 Further documents are listed in the continuation of Box C. See patent family annex.

- \* Special categories of cited documents:
- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier application or patent but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- "&" document member of the same patent family

Date of the actual completion of the international search

25 FEBRUARY 2005 (25.02.2005)

Date of mailing of the international search report

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## INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/KR2004/003149

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
JP 10-146171A(Chiba Kazuo)	Jun.02,1998	none	
KR 2003-067967A(Korea Eterprise Inc.)	Aug.19,2003	none	
JP 56-137869A(Nomizu Hiroo)	Oct.28,1981	none	
KR 1999-006224A(Im,Sul-ki)	Jan.25,1999	none	
JP 61-141864A(Shiyoubee Inc.)	Jun.28,1986	none	